

WHAT IS CLAIMED IS:

1. A hydrostatic gas bearing of an orifice type, comprising:
a gas injection port; and
an air groove communicating with the gas injection port,
wherein a clearance (h) of the bearing is at most $5\mu\text{m}$, and the ratio of a depth (g) of the air groove to the clearance (h) is at least 5.
2. The hydrostatic gas bearing according to claim 1, wherein materials of the gas bearing include, as a main component, at least one of alumina, silicon carbide, silicon nitride, Sialon, cordierite and a composite ceramic.